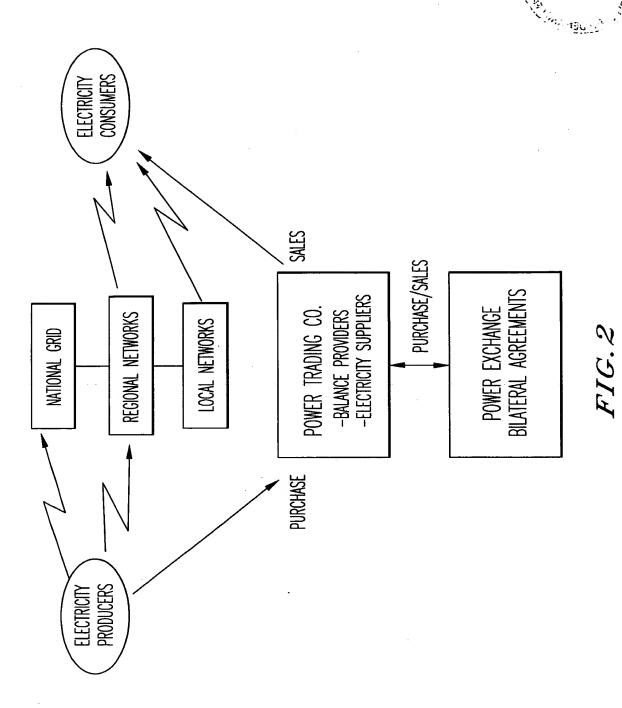
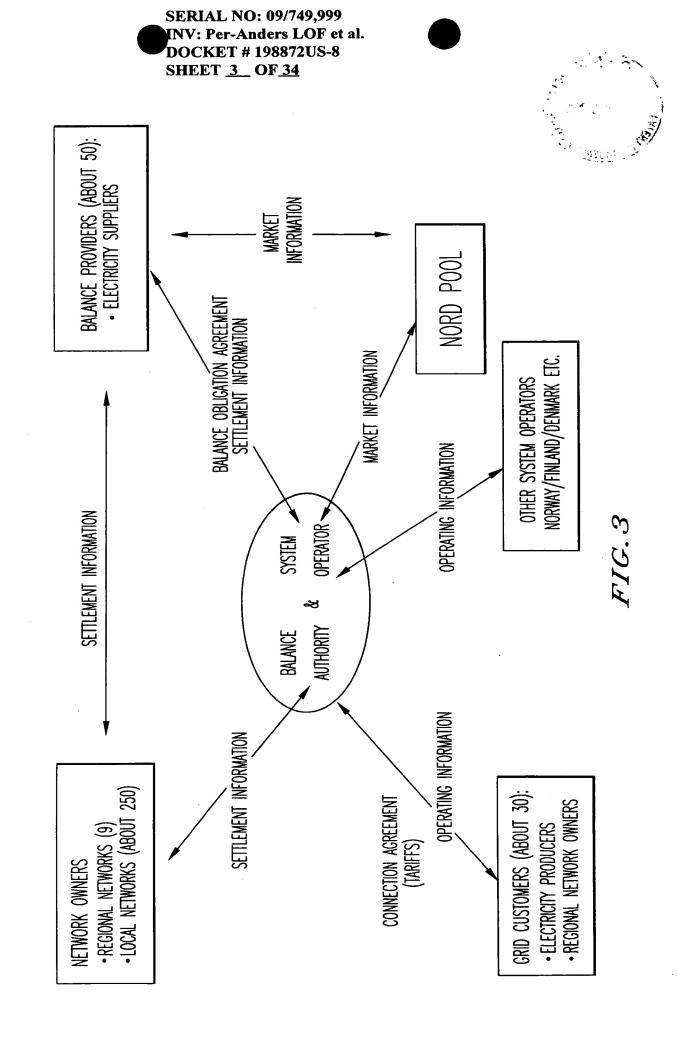
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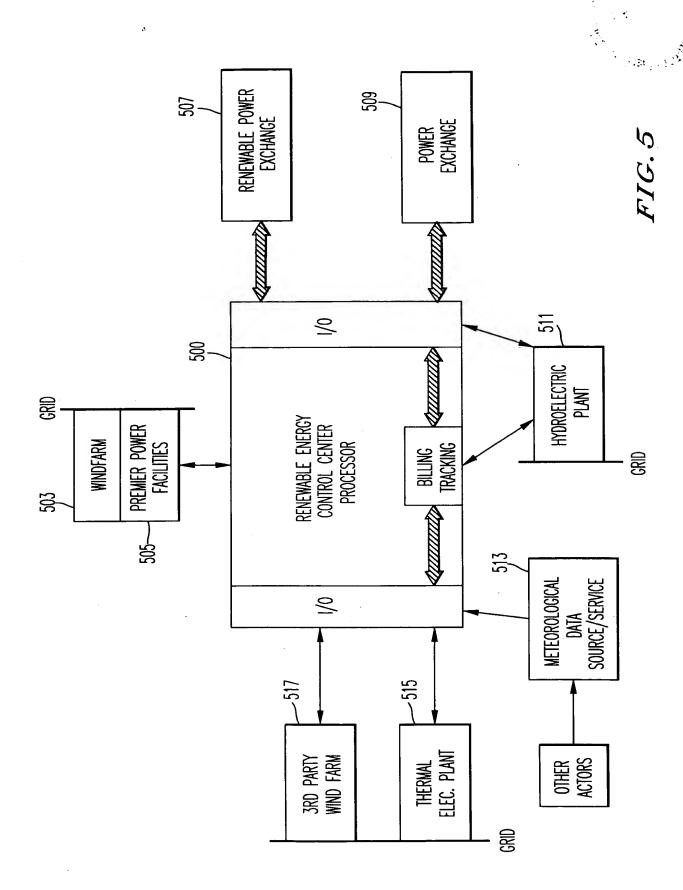


DAY AFTER DELIVERY BALANCE SETTLEMENT BALANCE POWER 12.00 Balance Regulation Regulating Power — Automatic FIG. 4 - SUBORDERED DAY OF DELIVERY DELIVERY HOUR BALANCE ADJUSTMENT ELBAS (EL-EX) - CONSUMPTION FORECASTS COMMERCIAL TRADINGPRODUCTION PLANS BALANCE PLANNING DAY BEFORE DELIVERY SPOT MARKET ELECTRICITY SPOT 12.00 15.00

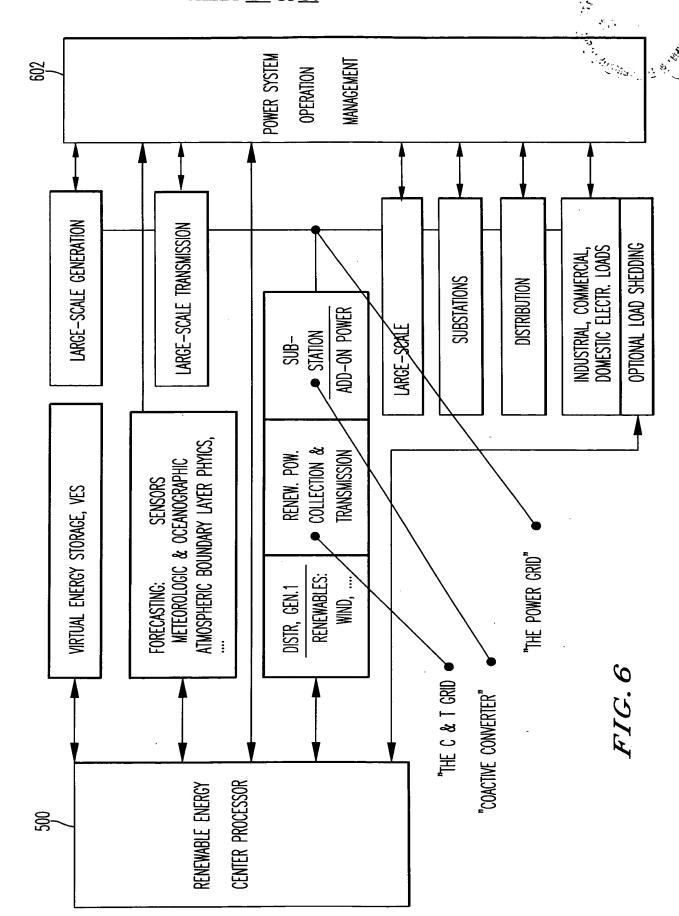
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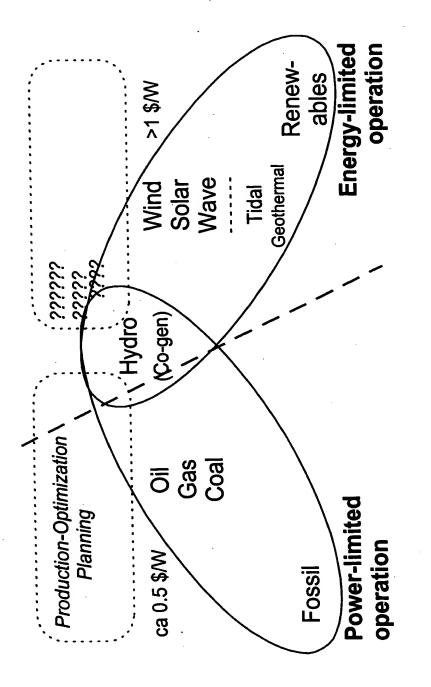
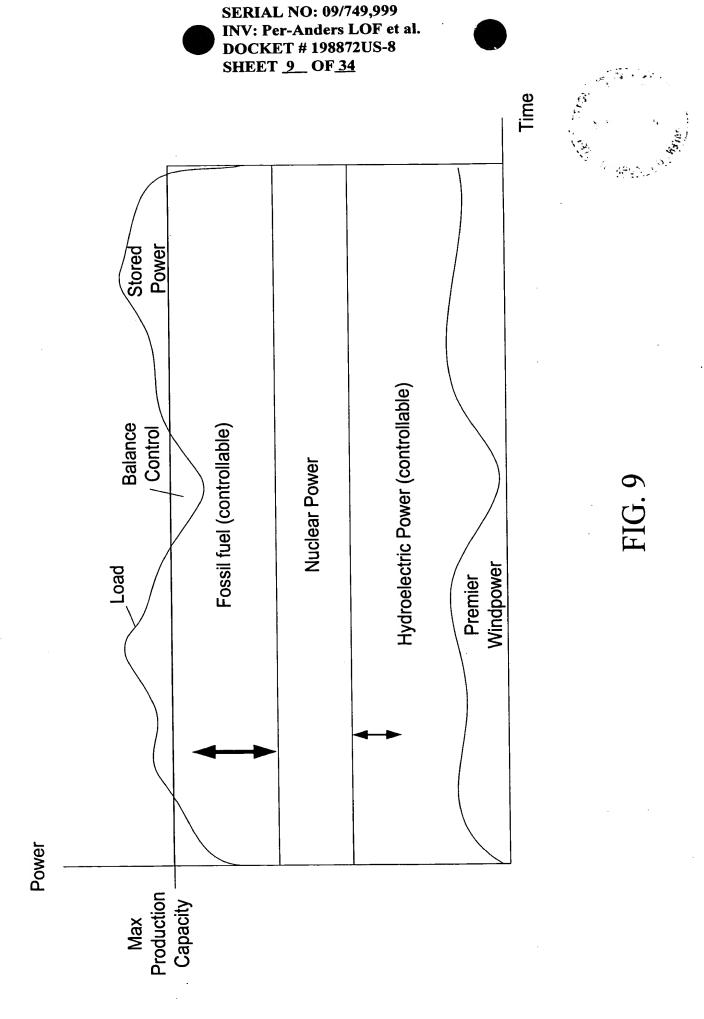


FIG. 7

Power

SERIAL NO: 09/749,999 INV: Per-Anders LOF et al. DOCKET # 198872US-8 SHEET <u>8</u> OF <u>34</u> Time Stored Power Fossil fuel (controllable) Hydroelectric Power **Nuclear Power** FIG. 8 oad Windpower Max Production Capacity [—]

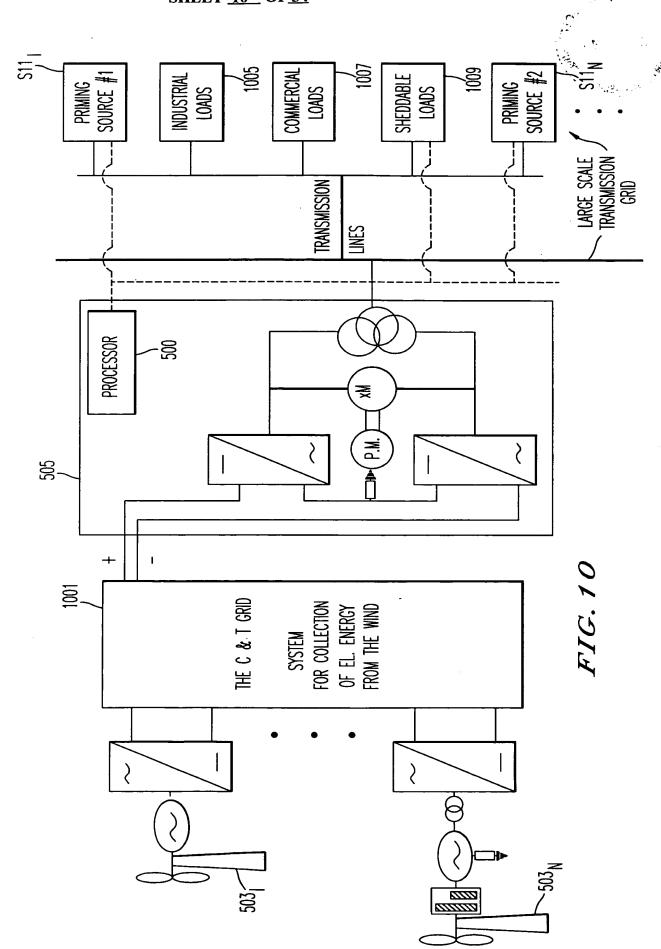


SERIAL NO: 09/749,999

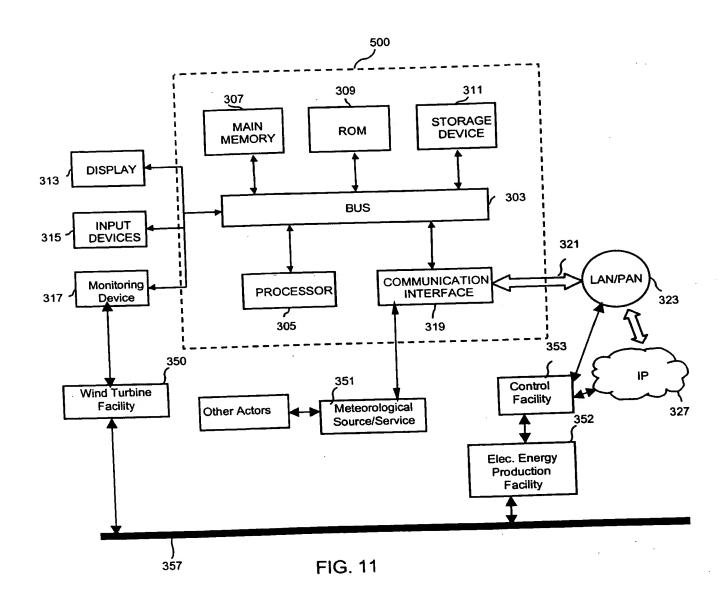
NV: Per-Anders LOF et al.

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Statistical Indicator
Time Period
Quantity of Produced Power
Wind Turbine ID

FIG. 12

Offer Price	Time Period	Quantity of Produced Power	Power Unit ID

FIG. 13

Bid Price
Time Period
Quantity of Produced Power
Power Unit ID

FIG. 14

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Time Period Quantity of Produced Power Power Unit ID Guaranteed

Price

FIG. 15

Power Unit ID Guaranteed

Confirmation of Delivery Quantity of Delivered Power

voltage is below threshold Amount by which output

voltage compensation mechanism Corresponding tap setting on

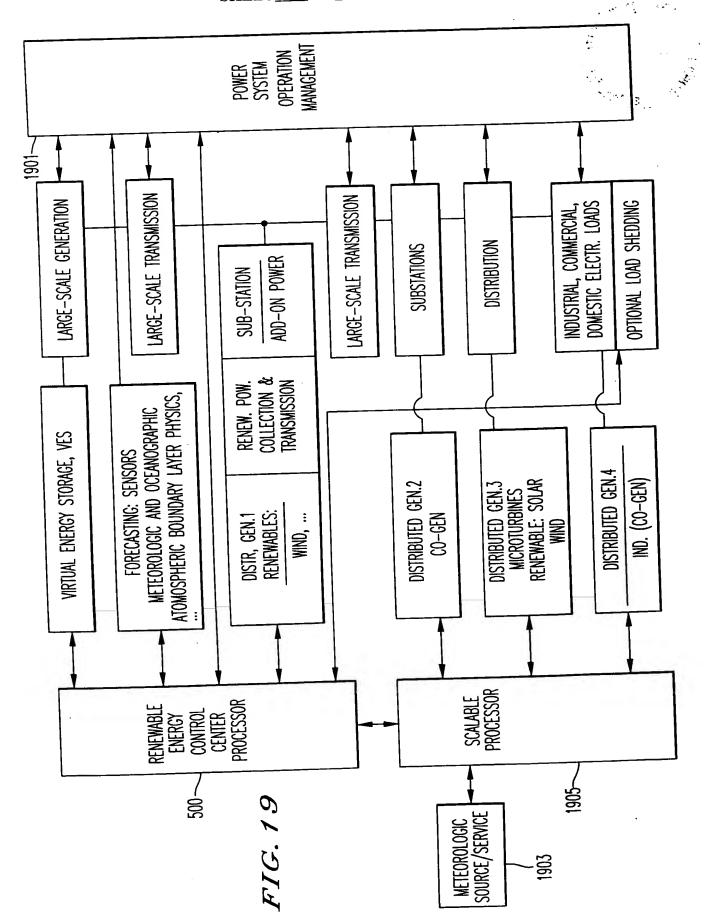
Quantity of Produced Power Wind Turbine ID

Time Period

FIG. 18

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DOCKET # 198872US-8 SHEET 15 OF 34 START S2001 PRODUCE FROM AT LEAST ONE WIND TURBINE A TIME-VARYING OUTPUT POWER S2005 S2003 PROVIDE CONTROL SIGNAL TO OUTPUT VOLTAGE **VOLTAGE COMPENSATION** N BELOW OR ABOVE A MECHANISM CONNECTED BETWEEN **PREDETERMINED** INVERTER OUTPUT OF WIND AMOUNT? TURBINE AND A POWER GRID S2015 FAULT IN N **GRID DETECTED?** CHANGE A TOP SETTING ON S2007-THE VOLTAGE COMPENSATION **MECHANISM** S2017 S2009-PROVIDE SHORT SIRCUIT PROVIDE POWER TO SAID POWER TO A POWER GRID **VOLTAGE COMPENSATION MECHANISM** CONNECTION TO WHICH AN FROM POWER RELEASE DRIVE OUTPUT OF SAID WIND TURBINE (E.G., X-M, CAES, BATTERY, FUEL, PROVIDES OUTPUT POWER TO A CELL, HYDRO, COMPENSATIBLE GRID AND TRIP BREAKER S2011-Υ AUXILIARY POWER STILL NEEDED? S2013 READJUST TOP SETTING AND REMOVE REMOVE AUXILIARY POWER **END** FIG. 20

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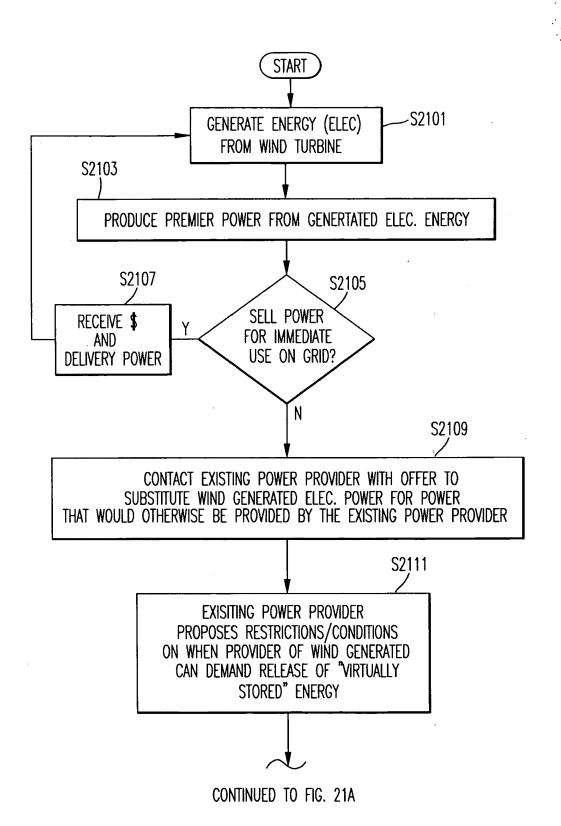
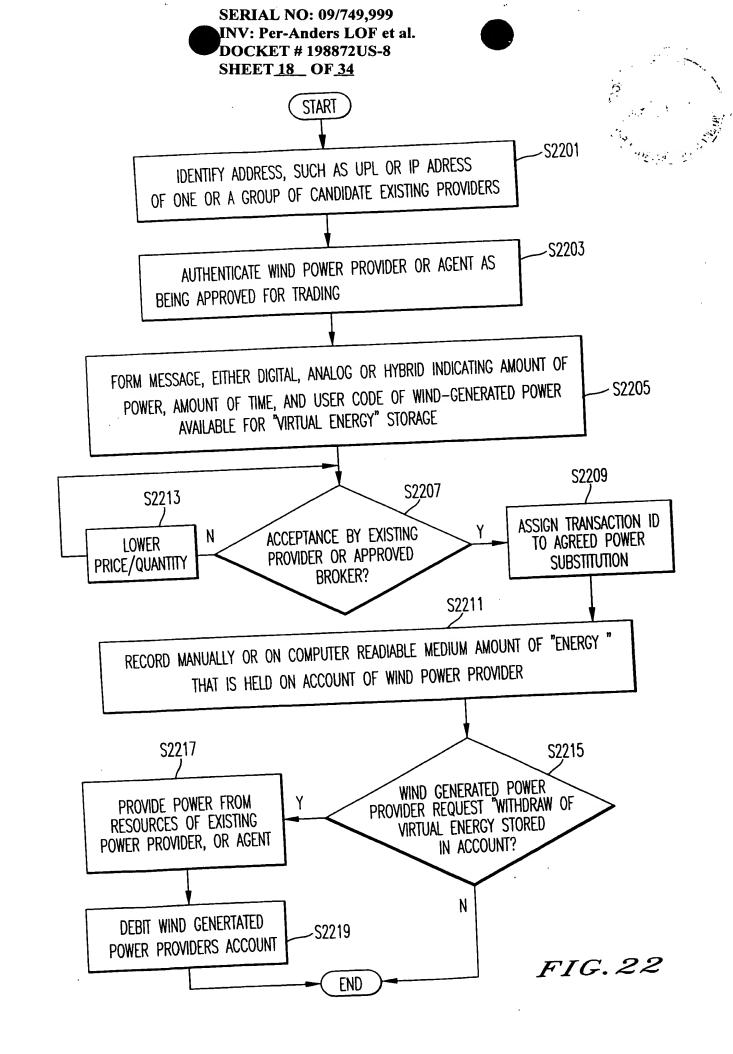


FIG. 21A

SHEET 17 OF 34 CONTINUED FROM FIG.21A S2113 AGREEMENT REACHED? S2115 Υ FIND ALTERNATIVE POWER PROVIDER TO SERVE AS VIRTUAL **ENERGY STORAGE** FACILITY AND REACH S2117 **AGREEMENT** WIND TURBINE GENERATED POWER APPLIED TO GRID, AND CORRESPONDING AMOUNT OF POWER FROM EXISTING POWER PROVIDER NOT GENERATED, BUT POTENTIAL ENERGY FOR GENERATING POWER AT A LATER TIME IS PRESERVED S2119 S2121 WINDGENERATED PROVIDER DIRECTS EXISTING POWER PROVIDER EXITING POWER TO CONVERT VIRTUAL ENERGY STORED ON BEHALF OF PROVIDER PROVIDER RELEASES OF WIND POWER **POWER** STOP

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FIG. 21B



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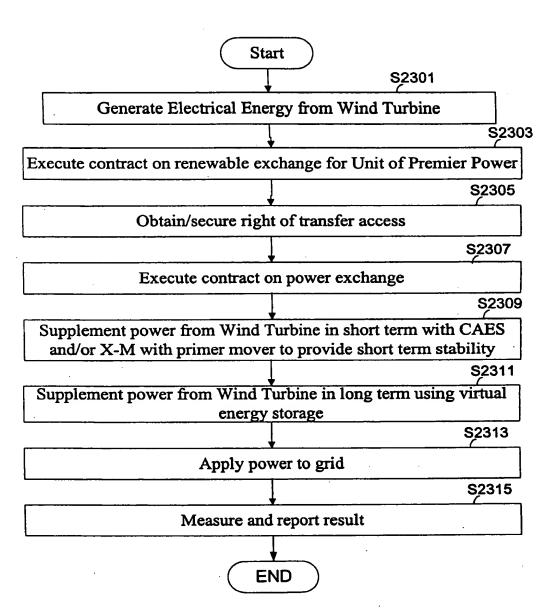


FIG. 23

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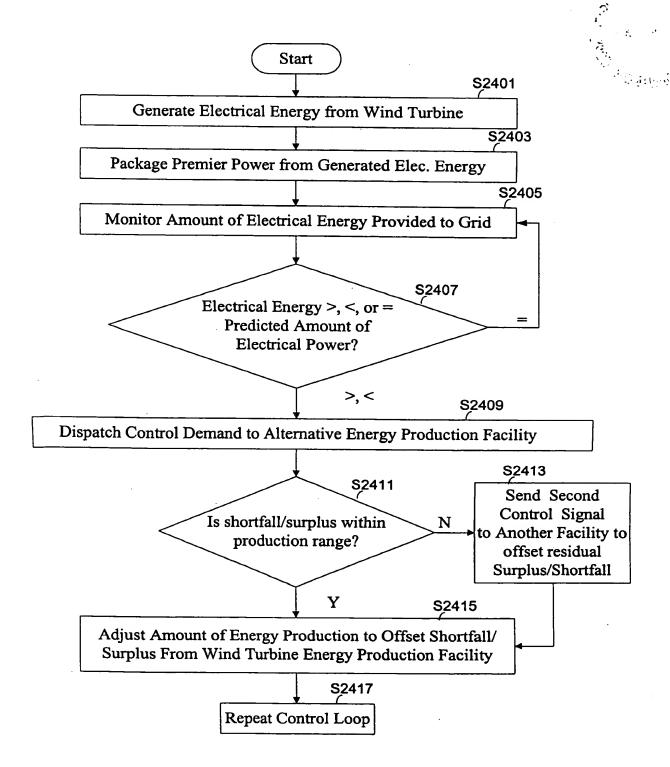


FIG. 24

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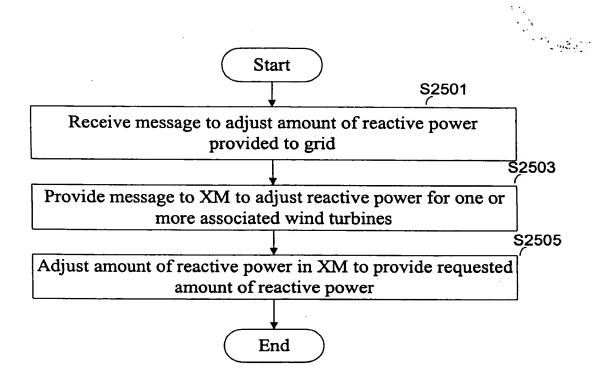
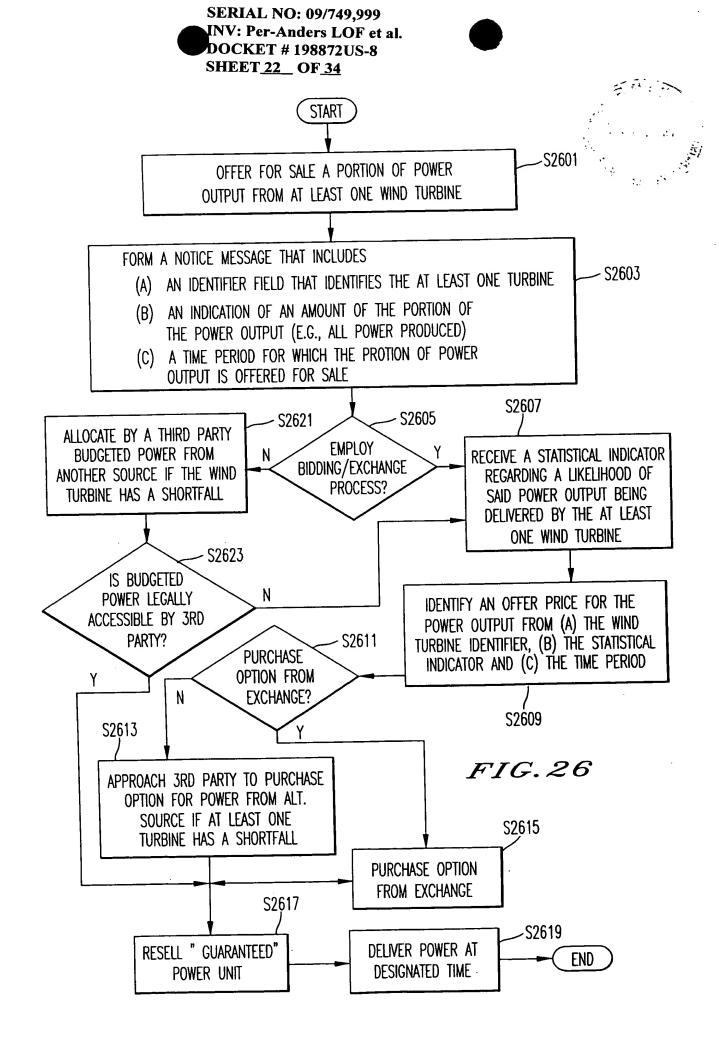


FIG. 25



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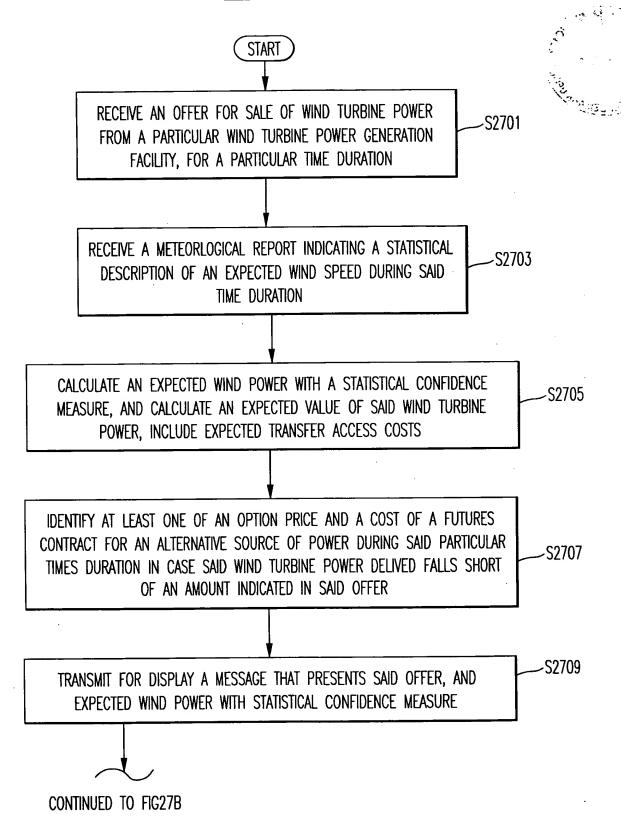


FIG. 27A

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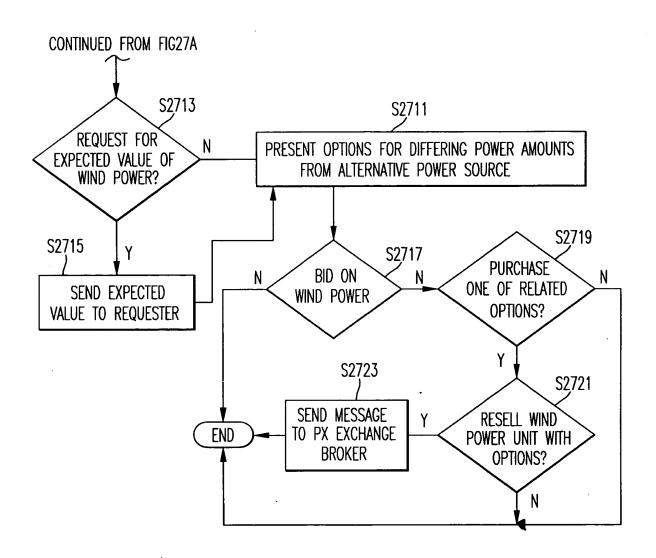


FIG. 27B

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INV: Per-Anders LOF et al.
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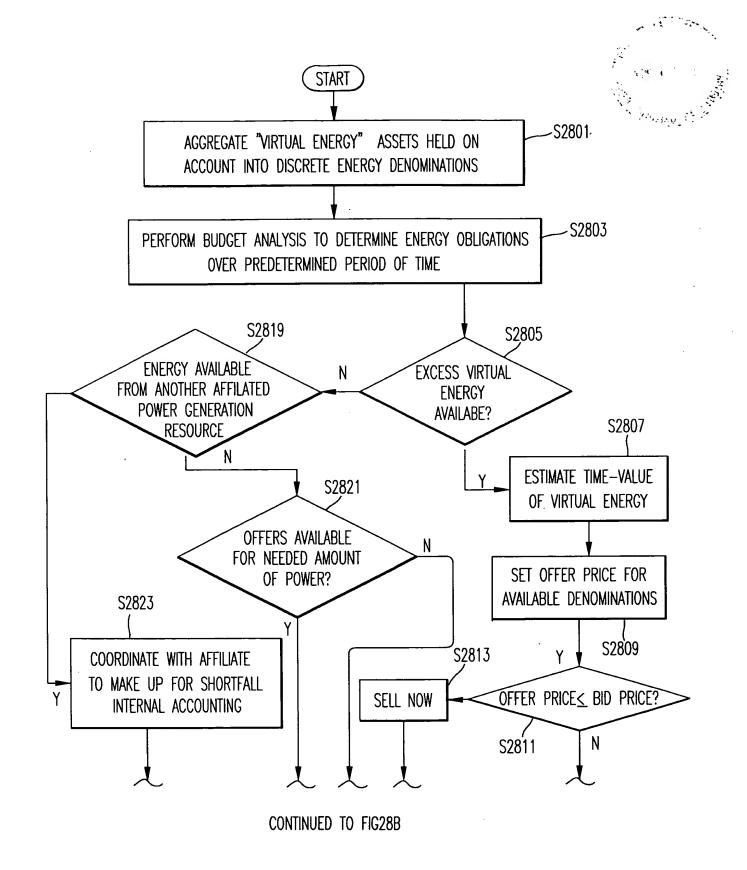


FIG. 28A

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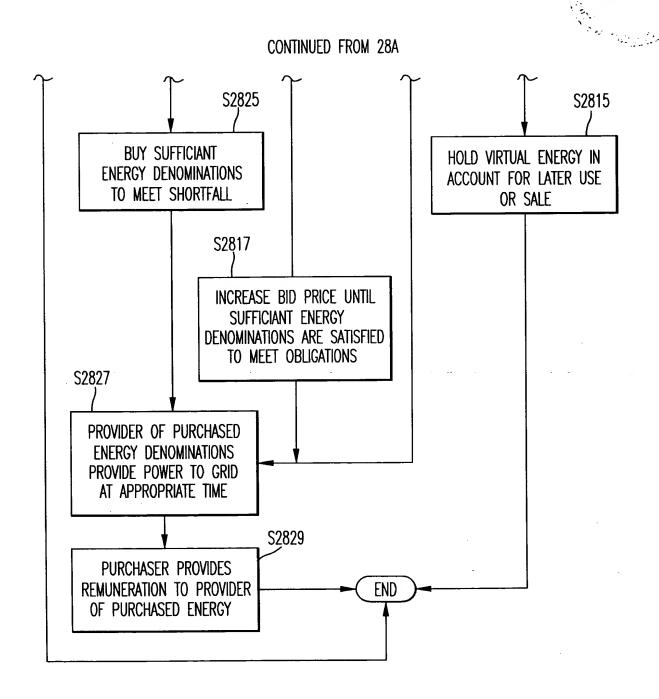


FIG. 28B

SERIAL NO: 09/749,999
INV: Per-Anders LOF et al.
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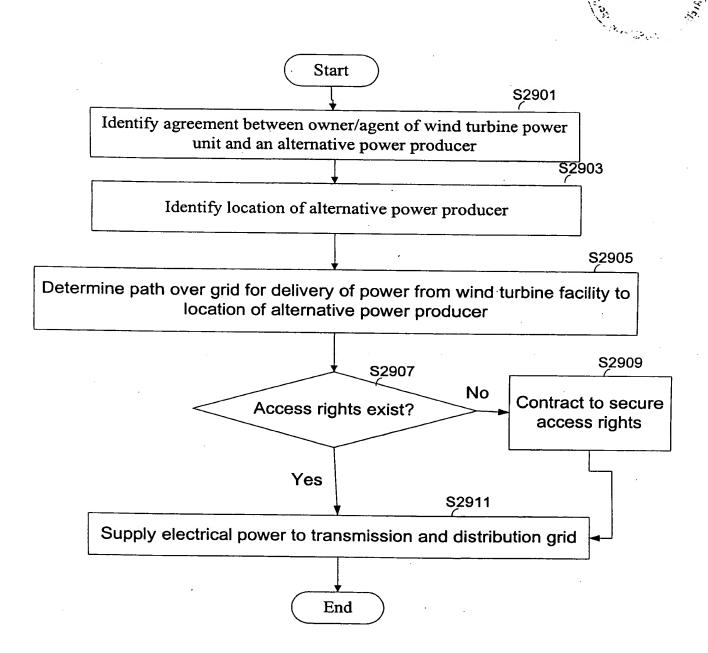


FIG. 29

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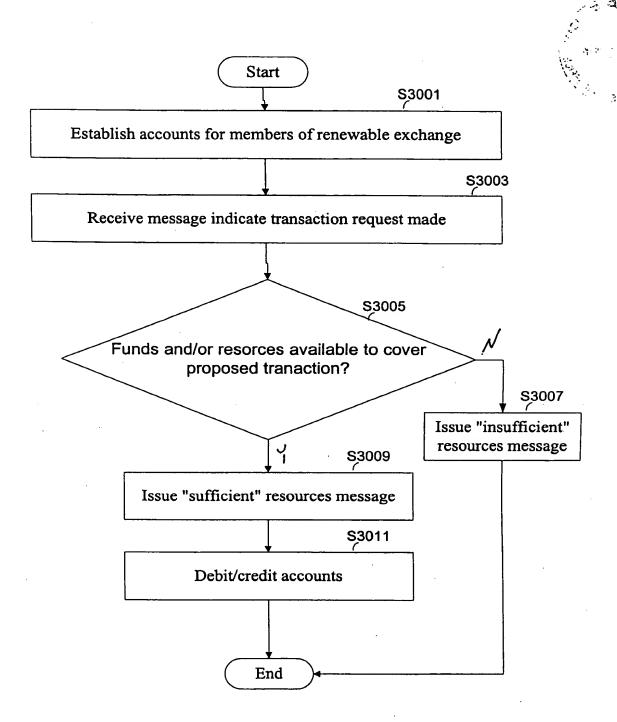
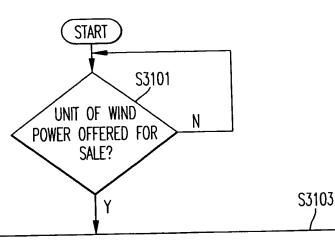


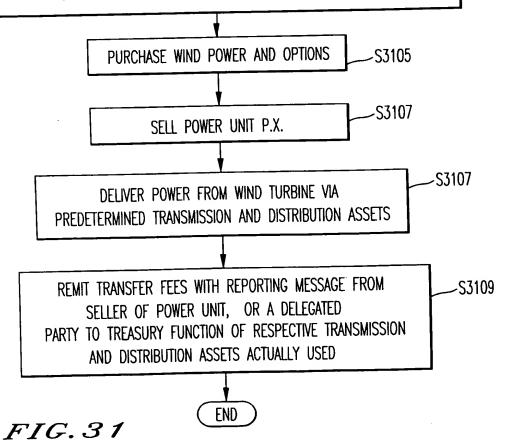
FIG. 30

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ESTIMATE FIXED COSTS, LESS EXPECTED VALUE OF WIND POWER

- (A) IDENTIFY TRANSMISSION AND DISTRIBUTION ASSETS REQUIRED TO DELIVER POWER FROM WIND TURBINE TO PREDETERMINED LOCATION ON GRID.
- (B) IDENTIFY FEES ASSOCIATED WITH USING TRANSMISSION AND DISTRIBUTION ASSETS
- (C) DETERMINE TRANSACTION COSTS
- (D) DETERMINE PRICE OF OPTION'S CONTRACT TO "GUARANTEE" DELIVERY OF POWER UNIT.



DOCKET # 198872US-8 SHEET 30 OF 34 START LOG-ON TO RENEWABLE EXCHANGE, OR BROKER FOR RX. -S3203 VIEW AVAILABLE "OPEN CONTRACTS" FOR PURCHASING SHARES IN "GUARANTEED" WIND POWER UNIT -S3205 SELECT PREDETERMINED NUMBER OF SHARES IN "GUARANTEED" WIND POWER UNIT VIEW RISK ASSESSMENT TOOL RESULT FOR SELECTED NUMBER OF SHARES S3207 (A) EXPECTED VALUE OF MEER WIND VELOCITY & STATISTICAL ESTIMATION OF VARIENCE IN WIND VELOCITY (B) CURRENT PRICE OF OPTIONS AVAILABLE FOR GUARATEEING THE WIND POWER S3209 -S3211 REMIT PAYMENT, DEBIT ACCOUNT PURCHASE SHARES? S3213 "GUARANTEED" UNIT SOLD ON P.X. S3215 BROKERAGE FEE, FIXED FEES SUBTRACTED FROM PURCHASE PRICE -S3217 DISTRIBUTE PROFIT/LOSS ON PER/SHARE BASIS TO SHAREHOLDERS FIG. 32 **END**

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Using meteorological data, predict expected amount of power to be produce by wind turbine at a certain time in future

S3303

Execute contract (futures) with alternative power provider (e.g., another wind turbine operator, hydro plant, etc.) to "guarantee" delivery of power if short fall exists

S3305

Offer for sale, or contract for delivery, a unit of wind-generated electrical power, guaranteed by a back-up power source

S3307

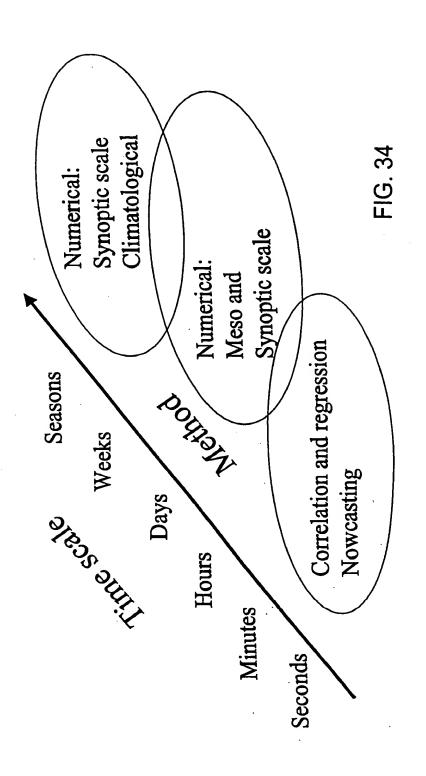
Sell contract for the guaranteed unit of wind-generated electrical power

Deliver power

End

FIG. 33

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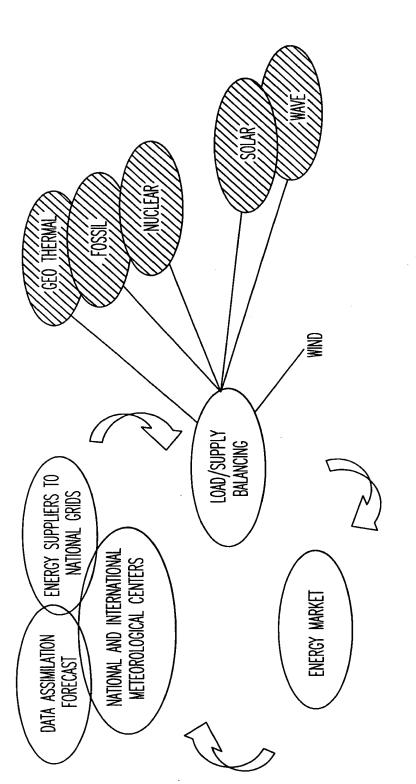


FIG. 35

 $U^{k,n}$

DOVEDOOS DVDGOL



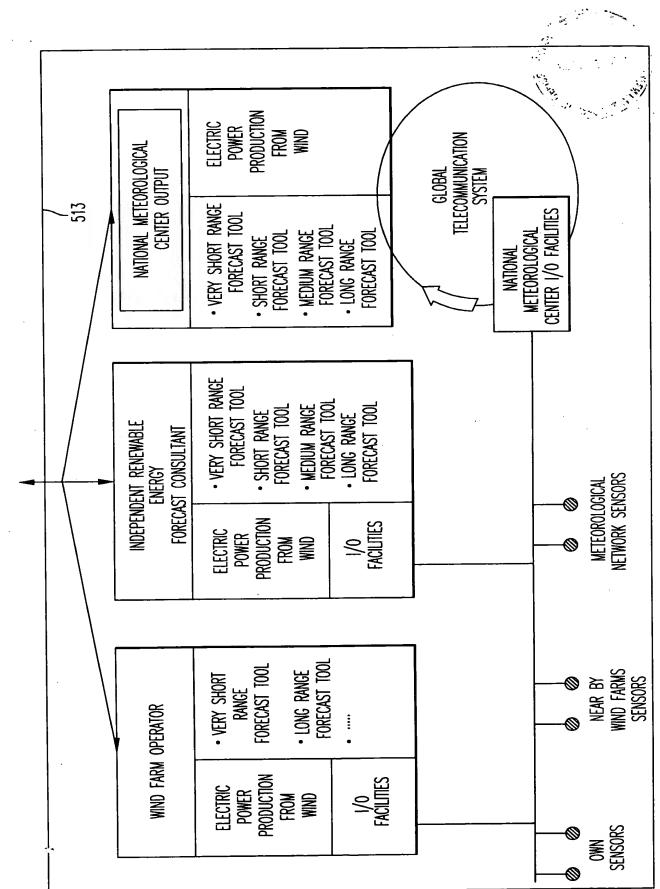


FIG. 36